

Iowa Influenza Surveillance Network (IISN)

Influenza-like Illness (ILI) and Other Respiratory Viruses

Monthly Activity Report



All data presented in this report are provisional and may change as additional reports are received



Iowa statewide activity summary:

Influenza activity in Iowa remains Iow. During this reporting month, no influenza viruses were confirmed at the State Hygienic Laboratory. Other respiratory viruses reported in this period include 30 adenovirus, six parainfluenza 1, 20 parainfluenza 3, four parainfluenza 4, 112 rhinovirus/enterovirus, nine hMPV and two coronavirus. No new influenza outbreaks or deaths due to influenza were reported in July.

Note that this data is included in the 2016-2017 influenza season (10/2/16-09/30/17) and the weekly reports will begin again in October with the start of the 2017-2018 season.

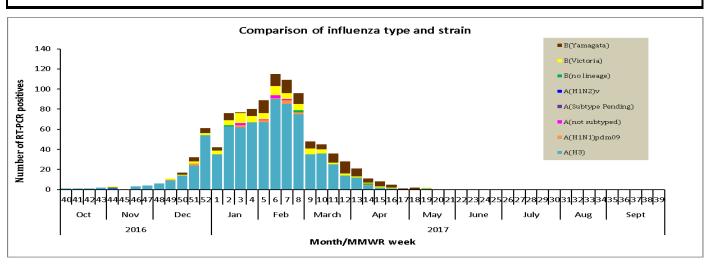
Laboratory surveillance program:

The State Hygienic Laboratory (SHL) is the primary lab for influenza testing and reporting in Iowa. SHL reports the number of tests performed and the type and sub-type of positive tests to the influenza surveillance network several times every week. In addition, SHL surveys clinical and reference labs on a weekly basis for the number of rapid-antigen tests performed, the number positive and the positive non-influenza virus tests. This report also includes the positive non-influenza virus tests reported from the Dunes Medical Laboratories at Mercy Medical Center in Sioux City.

Table 1: li	Table 1: Influenza A viruses detected by SHL by age group									
	JULY 2017				CUMULATIVE (10/2/16 – CURRENT MONTH)					
	Flu A				Flu A					
Age Group	A(H1N1)pdm09	A(H3)	A(H1N2v)	Subtype Pending	Not subtyped	A(H1N1)pdm09	A(H3)	A(H1N2v)	Subtype Pending	Not subtyped
0-4	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	4(27%)	32(4%)	0(0%)	0(0%)	0(0%)
5-17	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	2(13%)	49(6%)	0(0%)	0(0%)	0(0%)
18-24	0(0%)	00%)	0(0%)	0(0%)	0(0%)	0(0%)	117(15%)	0(0%)	0(0%)	1(14%)
25-49	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	4(27%)	65(8%)	0(0%)	0(0%)	2(29%)
50-64	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	2(13%)	91(11%)	1(100%)	0(0%)	1(14%)
>64	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	3(20%)	440(55%)	0(0%)	0(0%)	3(43%)
Total	0	0	0	0	0	15	794	1	0	7

*Counts of three or less are sometimes suppressed to protect confidentiality. Note that counts may not add up to the total due to missing age information. Only cases of lowa residents are included. "Not subtyped" column is due to weak detections. This can be due to poor collection, timing of collection or stage of infection.

Table 2: Influenza B viruses detected by SHL by age group							
	JULY 2017			CUMULATIVE (10/2/16 – CURRENT MONTH)			
Age	Flu B			Flu B			
Group	Victoria Lineage	Yamagata Lineage	Lineage Pending	Victoria Lineage	Yamagata Lineage	Lineage Pending	
0-4	0(0%)	0(0%)	0(0%)	8(10%)	7(5%)	2(50%)	
5-17	0(0%)	0(0%)	0(0%)	31(40%)	28(21%)	1(25%)	
18-24	0(0%)	0(0%)	0(0%)	14(18%)	15(11%)	1(25%)	
25-49	0(0%)	0(0%)	0(0%)	12(15%)	16(12%)	0(0%)	
50-64	0(0%)	0(0%)	0(0%)	4(5%)	26(19%)	0(0%)	
>64	0(0%)	0(0%)	0(0%)	9(12%)	42(32%)	0(0%)	
Total	0	0	0	78	134	4	
*Counts of thre	*Counts of three or less are sometimes suppressed to protect confidentiality. Note that counts may not add up to the total due to missing age information. Only cases of lowa residents are included						

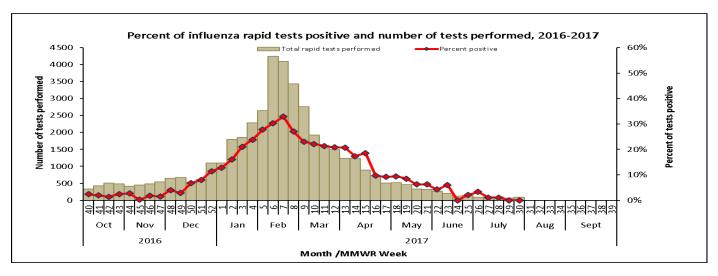


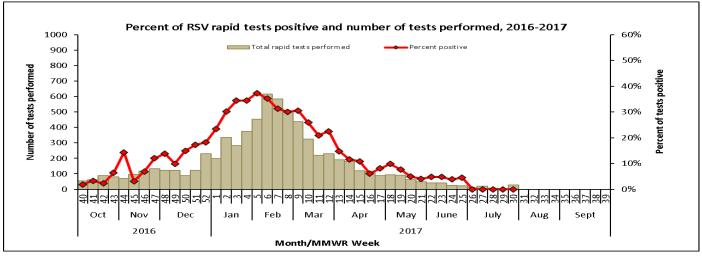
Rapid influenza and RSV test surveillance:

The State Hygienic Laboratory (SHL) runs a weekly web-based survey program where laboratorians report the number of influenza and respiratory syncytial virus (RSV) rapid tests performed and the number of tests positive. This table includes only the number of patients tested for influenza or RSV at laboratory surveillance sites throughout the state. This table does not provide case counts.

Table 3: Percent of influenza rapid tests positive and number of tests performed by region for the present month							
DECION*		RAPID ANTIGEN I	NFLUENZA TESTS	RAPID ANTIGEN RSV TESTS			
REGION*	Tested	Flu A	Flu B	% Positive	Tested	Positive	% Positive
Region 1 (Central)	74	0	0	0	10	0	0
Region 2 (NE)	10	1	0	10	8	0	0
Region 3 (NW)	2	0	0	0	4	0	0
Region 4 (SW)	18	0	0	0	3	0	0
Region 5 (SE)	57	0	1	2	24	0	0
Region 6 (Eastern)	280	1	2	1	22	0	0
Total	441	2	3	1	71	0	0

*Region 1- Boone, Calhoun, Carroll, Dallas, Greene, Grundy, Hamilton, Hardin, Jasper, Marshall, Polk, Poweshiek, Story, Tama, Warren, Webster; Region 2- Allamakee, Bremer, Butler, Cerro Gordo, Chickasaw, Emmet, Fayette, Floyd, Franklin, Hancock, Howard, Humboldt, Kossuth, Mitchell, Winnebago, Winneshiek, Worth, Wright; Region 3- Buena Vista, Cherokee, Clay, Crawford, Dickinson, Ida, Lyon, Monona, O'Brien, Osceola, Palo Alto, Plymouth, Pocahontas, Sac, Sioux, Woodbury; Region 4- Adairs, Audubon, Cass, Clarke, Decatur, Fremont, Guthrie, Harrison, Madison, Mills, Montgomery, Page, Pottawattamie, Ringgold, Shelby, Taylor, Union; Region 5- Appanoose, Davis, Des Moines, Henry, Jefferson, Keokuk, Lee, Louisa, Lucas, Mahaska, Marion, Monroe, Muscatine, Van Buren, Wapello, Washington, Wayne; Region 6- Benton, Black Hawk, Buchanan, Cedar, Clayton, Clinton, Delaware, Dubuque, Iowa, Jackson, Johnson, Jones, Linn, Scott.

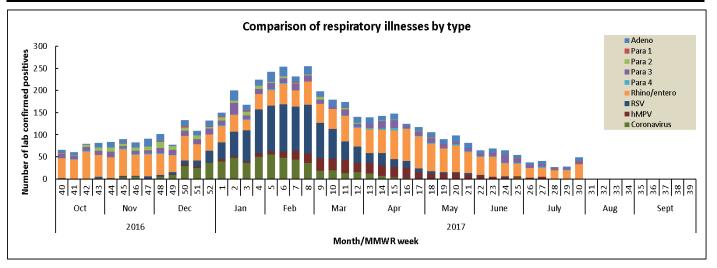




Non-influenza respiratory virus:

The State Hygienic Laboratory (SHL) runs a weekly web-based survey program where laboratorians report the number of positive tests for non-influenza respiratory viruses. This table also includes the positive non-influenza virus tests reported from the Dunes Medical Laboratories at Mercy Medical Center in Sioux City. The table includes only the number of positive tests at laboratory surveillance sites throughout the state. The table does not provide case counts.

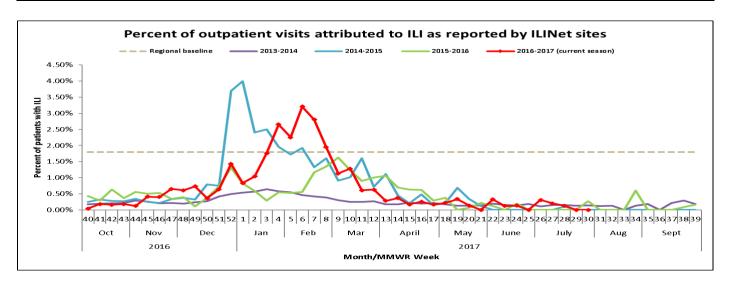
Viruses	JULY 2017	CUMULATIVE (10/2/16 – CURRENT MONTH)		
Adenovirus	30	502		
Parainfluenza Virus Type 1	6	28		
Parainfluenza Virus Type 2	0	138		
Parainfluenza Virus Type 3	20	420		
Parainfluenza Virus Type 4	4	56		
Rhinovirus/Enterovirus	112	1894		
Respiratory syncytial virus (RSV)	0	1093		
Human metapneumovirus (hMPV)	9	382		
Coronavirus	2	577		
Total	183	5090		



Outpatient health care provider surveillance program (ILINet):

Outpatient health care providers who participate in the ILINet (a national influenza surveillance program) report the number of patients seen with influenza-like illness and the total number of patient visits each week. This system is a key part of Iowa's influenza surveillance. Across the state, 17 providers, ranging from family medicine to student health centers, participate weekly in the ILINet program. Iowa health care providers interested in joining this surveillance program should contact Andy Weigel at 515-322-1937 or andy.weigel@idph.iowa.gov for more information.

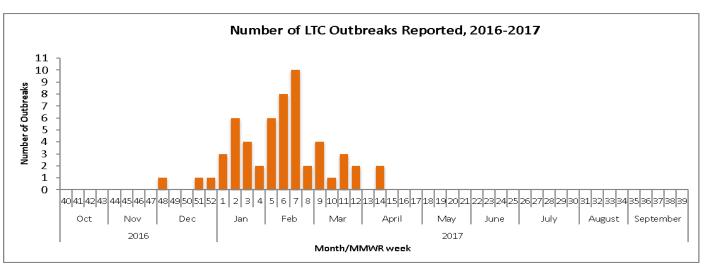
Table 5: Outpatient visits for influenza-like illness (ILI)							
Week	%ILI	Total ILI	Age 0-4	Age 5-24	Age 25-49	Age 50-64	Age >64
Week 26, ending July 1	0.31	2	0	0	2	0	0
Week 27, ending July 8	0.20	1	0	0	1	0	0
Week 28, ending July 15	0.13	1	0	0	1	0	0
Week 29, ending July 22	0.00	0	0	0	0	0	0
Week 30, ending July 29	0.00	0	0	0	0	0	0



Long-term care outbreaks

REGION*	JULY 2017	CUMULATIVE (10/2/16 – CURRENT MONTH)
Region 1 (Central)	0	19
Region 2 (NE)	0	4
Region 3 (NW)	0	7
Region 4 (SW)	0	9
Region 5 (SE)	0	8
Region 6 (Eastern)	0	9
Total	0	56

*Region 1- Boone, Calhoun, Carroll, Dallas, Greene, Grundy, Hamilton, Hardin, Jasper, Marshall, Polk, Poweshiek, Story, Tama, Warren, Webster; Region 2- Allamakee, Bremer, Butler, Cerro Gordo, Chickasaw, Emmet, Fayette, Floyd, Franklin, Hancock, Howard, Humboldt, Kossuth, Mitchell, Winnebago, Winneshiek, Worth, Wright, Region 3- Buena Vista, Cherokee, Clay, Crawford, Dickinson, Ida, Lyon, Monona, O'Brien, Osceola, Palo Alto, Plymouth, Pocahontas, Sac, Sioux, Woodbury; Region 4- Adairs, Audubon, Cass, Clarke, Decatur, Fremont, Guthrie, Harrison, Madison, Mills, Montgomery, Page, Pottawattamie, Ringgold, Shelby, Taylor, Union; Region 5- Appanoose, Davis, Des Moines, Henry, Jefferson, Keokuk, Lee, Louisa, Lucas, Mahaska, Marion, Monroe, Muscatine, Van Buren, Wapello, Washington, Wayer, Region 6- Benton, Black Hawk, Buchanan, Cedar, Clayton, Clinton, Delaware, Dubuque, Iowa, Jackson, Johnson, Jones, Linn, Scott.



Other resources:

Vaccine:

Influenza vaccine recommendation: idph.iowa.gov/immtb/immunization/vaccine

CDC vaccine information: www.cdc.gov/flu/faq/flu-vaccine-types.htm

Vaccine finder: http://vaccinefinder.org/

Neighboring states' influenza information:

Illinois: www.dph.illinois.gov/topics-services/diseases-and-conditions/influenza/surveillance

Minnesota: www.health.state.mn.us/divs/idepc/diseases/flu/stats/index.html

Missouri: health.mo.gov/living/healthcondiseases/communicable/influenza/reports.php

South Dakota: doh.sd.gov/diseases/infectious/flu/
Wisconsin: www.dhs.wisconsin.gov/influenza/index.htm

National activity summary - (CDC):

Condensed reports over the summer months are available at www.cdc.gov/flu/weekly/.

International activity summary - (WHO):

Detailed information can be found online at www.who.int/influenza/surveillance monitoring/updates/latest update GIP surveillance/en/.